

IN THE CLAIMS:

1-5. (cancelled)

6. **(new)** An electronic gas-lighting device, comprising:

a casing made of insulating material;

an electronic high-voltage-pulse generating circuit housed in said casing, said electronic high-voltage-pulse generating circuit comprising a transformer having a secondary winding and at least one high voltage terminal formed at an end of said secondary winding;

power supply contacts fitted to said casing to be in electrical contact with said electronic high-voltage-pulse generating circuit; and

attaching elements for removably attaching said casing to a supporting surface of a metal conducting body element of a cooking range provided with gas burners;

wherein said attaching elements comprise two teeth adapted to engage with at least one opening of the metal conducting body element, said teeth being formed integrally with said casing and at least one of said teeth being elastically deformable.

7. **(new)** The device of claim 6, wherein said casing comprises first and second compartments, said transformer being housed in the first compartment and electrically connected to other components of said electronic high-voltage-pulse generating circuit that are housed in the second compartment, said power supply contacts being fitted to the second compartment.

8. **(new)** The device of claim 7, wherein an entirety of said casing, including said first and second compartments, is integrally made of molded plastic material.

9. **(new)** The device of claim 8, wherein said first compartment has a cup structure, said second compartment has a box structure, and said power supply contacts include blade contacts each having a screw terminal.

10. **(new)** The device of claim 8, wherein said teeth projecting integrally from an outer surface of the second compartment.

11. (new) The device of claim 10, wherein one of said power supply contacts is a ground contact that comprises a tongue projecting outwards of the second compartment, on the same side as the teeth, for a predetermined distance from the outer surface so as to contact the metal conducting body element when said teeth engage said at least one opening of the metal conducting body element, said tongue having a hole for enabling said tongue to be fastened to the metal conducting body element.

12. (new) The device of claim 11, wherein said first compartment has a cup structure, said second compartment has a box structure, and said power supply contacts include blade contacts each having a screw terminal.

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13. (new) The device of claim 10, further comprising a conductor on the outer surface of said second compartment for connecting the electronic high-voltage-pulse generating circuit to a control of the cooking range.

14. (new) The device of claim 10, wherein the first compartment has
an access opening; and
a bottom wall opposite and facing said access opening, said bottom wall comprising at least one duct in which said at least one high voltage terminal is housed, said bottom wall and access opening lying in planes perpendicular to the outer surface of said second compartment.

15. (new) An electronic gas-lighting device, comprising:
a casing made of insulating material;
an electronic high-voltage-pulse generating circuit housed in said casing, said electronic high-voltage-pulse generating circuit comprising a transformer having a secondary winding and at least one high voltage terminal formed at an end of said secondary winding;
power supply contacts fitted to said casing to be in electrical contact with said electronic high-voltage-pulse generating circuit; and
attaching elements for removably attaching said casing to a supporting surface of a metal conducting body element of a cooking range provided with gas burners;

wherein

said casing comprises first and second compartments, said transformer being housed in the first compartment and electrically connected to other components of said electronic high-voltage-pulse generating circuit that are housed in the second compartment, said power supply contacts being fitted to the second compartment; and

an entirety of said casing, including said first and second compartments, is integrally made of said insulating material.

16. (new) The device of claim 15, further comprising attaching elements projecting from an outer surface of the second compartment for removably attaching said casing to a supporting surface of a metal conducting body element of a cooking range provided with gas burners.

17. (new) The device of claim 16, wherein one of said power supply contacts is a ground contact that comprises a tongue projecting outwards of the second compartment, on the same side as the teeth, for a predetermined distance from the outer surface so as to contact the metal conducting body element when said teeth engage at least one opening of the metal conducting body element.

18. (new) The device of claim 17, wherein said high voltage terminal and said tongue project from the first and second compartments, respectively, in different directions.